

# “CATALASAN NUCLEAR FUSION REACTOR”

## A High Speed Rotating Centrifugal-Laser Nuclear Fusion Reactor

### **Mr. Peter Paul Catalasan**

Chief Theoretical Research Scientist:

A Mathematical Physicist,

Theoretical Computer Scientist, and

Artificial Intelligence Researcher

Advanced Catalasan Research Laboratories, Inc.

Citizen of the Republic of the Philippines

Citizen of the United States of America

*CSULB Graduate Student*

United States Residence

25410 Dodge Ave. # K

Harbor City, CA 90710

[pcatalas@enr.csulb.edu](mailto:pcatalas@enr.csulb.edu)

310.830.1046

### Catalasan Nuclear Fusion Reactor Claims:

1. **Thermonuclear Fusion Reactor** – A supply of positive Hydrogen atomic ions that convert, through a high-speed rotating centrifugal-laser nuclear fusion steam turbine reactor, into double-positive Helium atomic plasma ions, releasing proton controlled hydrogen fusion energies equal or greater than fission nuclear reactions. Given the simplicity, ease of use, maintenance, and safety of this design, nuclear energy reactions provide positive energy gains above the required sustained input of energy as long as Hydrogen atomic ions are available.
2. **Electrical Energy Generation Plant** – The same as Claim 1, and an Electric Turbine Generator geared with a high-speed rotating centrifugal-laser nuclear fusion steam turbine reactor axel, providing electrical generation energy magnitudes limited only to the physical size of the thermonuclear fusion reactor and the number of flipped-flopped rotating disks.
3. **Submarine Power Plant** – The same as Claims 1 and 2, such that the input of Hydrogen atomic ions and the steam turbine's water supply come from processed sea water, with the Electric Turbine Generator as the submarine's power supply and engine.
4. **Spacecraft Power Plant** – The same as Claims 1 and 2, but require a counter rotation mechanism, being another high-speed rotating centrifugal-laser nuclear fusion steam turbine rotating opposite wise.
5. **Scalable Power Plant** – The same as Claims 1 and 2, with a variable number of flipped-flopped rotating disks and a variable number of steam turbines, and the ability to miniaturize a high-speed rotating centrifugal-laser nuclear fusion steam turbine reactor limited only to the smallest working physical size of the thermonuclear fusion reactor.